

FIG.1

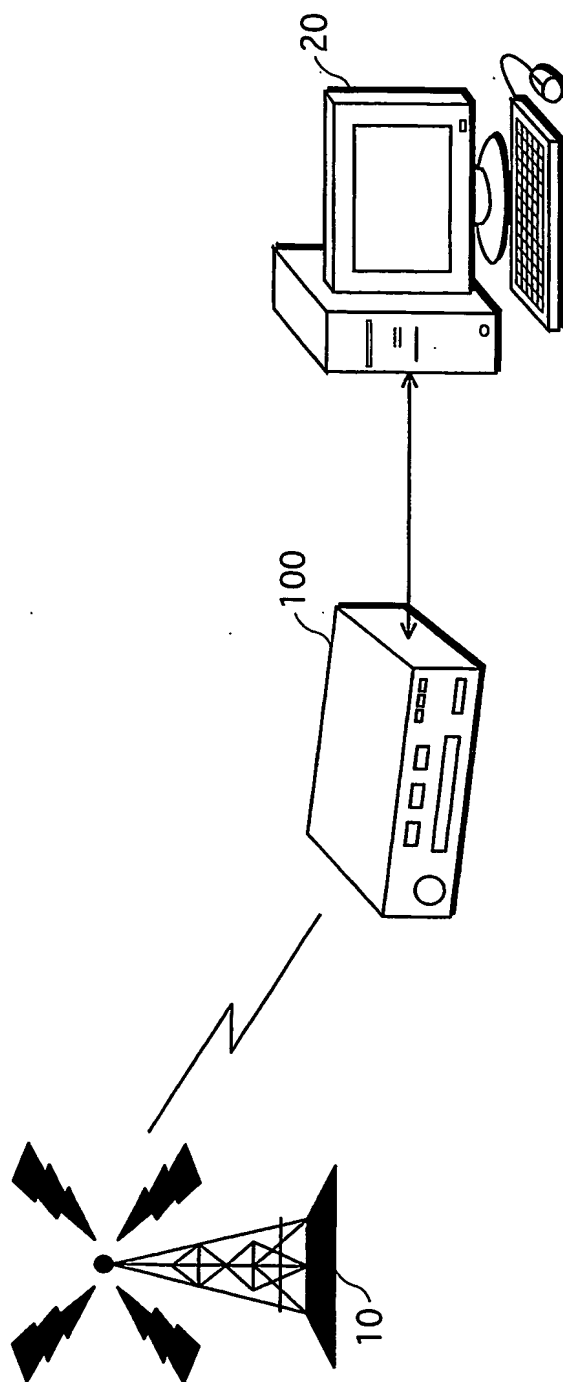




FIG.3

CONTENT ID	GENRE	PROGRAM TITLE
------------	-------	---------------

FIG.4

301

PROGRAM TYPE	NUMBER OF OPERATIONS	OPERATION 1	OPERATION 2	OPERATION 3	OPERATION 4	OPERATION 5	OPERATION n
NEWS PROGRAM 1	4	001	004	002	003	—	—
NEWS PROGRAM 2	4	004	001	002	003	—	—
NEWS PROGRAM 3	4	001	004	002	005	—	—
NEWS PROGRAM 4	4	004	001	002	005	—	—
NEWS PROGRAM 5	4	001	004	002	010	—	—
NEWS PROGRAM 6	4	004	001	002	010	—	—
MUSIC SHOW 1	4	001	004	002	006	—	—
MUSIC SHOW 2	4	004	001	002	006	—	—
INTER-PROGRAM CM	2	007	008	—	—	—	—

FIG. 5

302

OPERATION ID	DETECTION TARGET FRAME	DETECTION PARAMETER	INDEXING OPERATION	SELECTION FRAME	INDEX FRAME
001	LARGE CAPTION START	REGION [(X,Y)-(x,y)], THRESHOLD [x,y]	REGISTER PRESENTATION TIME	0	0
002	SMALL CAPTION	REGION [(X,Y)-(x,y)], THRESHOLD [x,y]	DELETE PRESENTATION TIME	1	0
003	TRANSITION	—	REGISTER START TIME	1	1
004	CM	INTERVALS [15]	DELETE PRESENTATION TIME	1	0
005	SILENCE	THRESHOLD [v]	REGISTER START TIME	1	1
006	MUSIC START	—	REGISTER START TIME	1	1
007	CM START	INTERVALS [15]	REGISTER START TIME	0	0
008	TRANSITION	—	REGISTER PRESENTATION TIME	2	2
009	SIMILAR IMAGE	REFERENCE FRAME NO.	REGISTER PRESENTATION TIME	1	0
010	SPEECH START	—	REGISTER START TIME	1	1

FIG.6

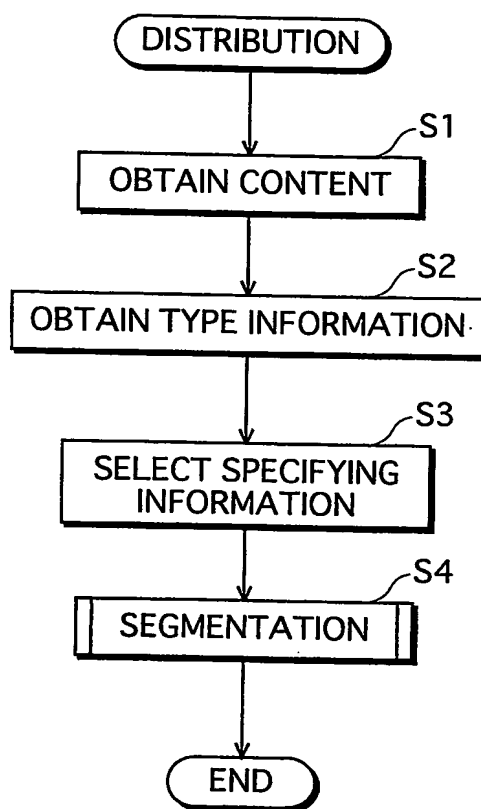


FIG.7

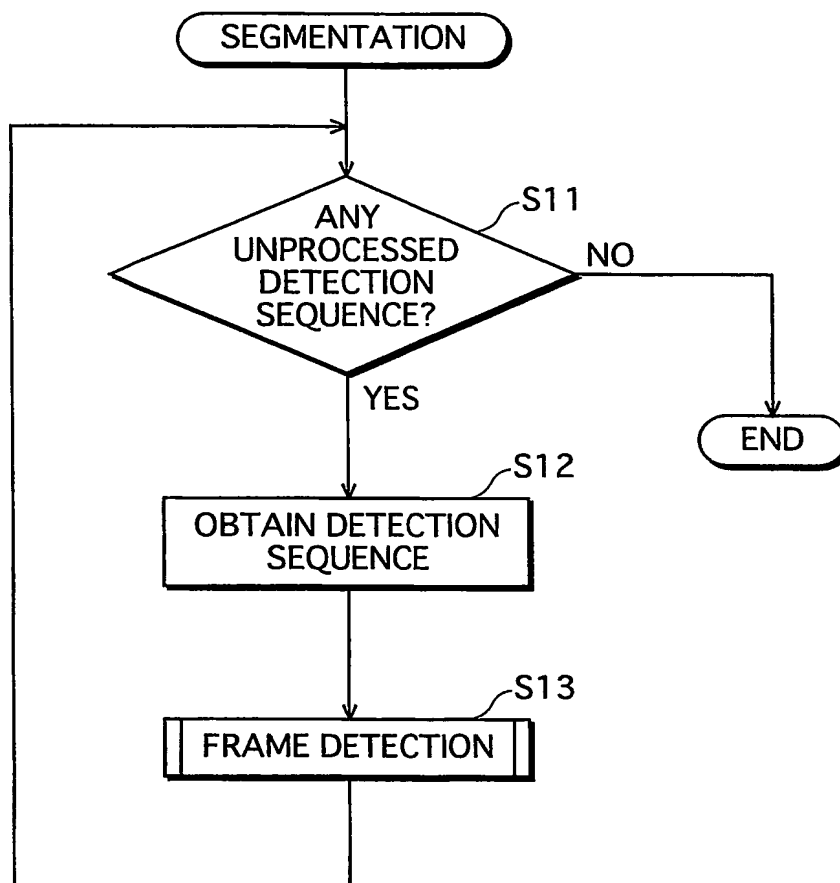


FIG.8

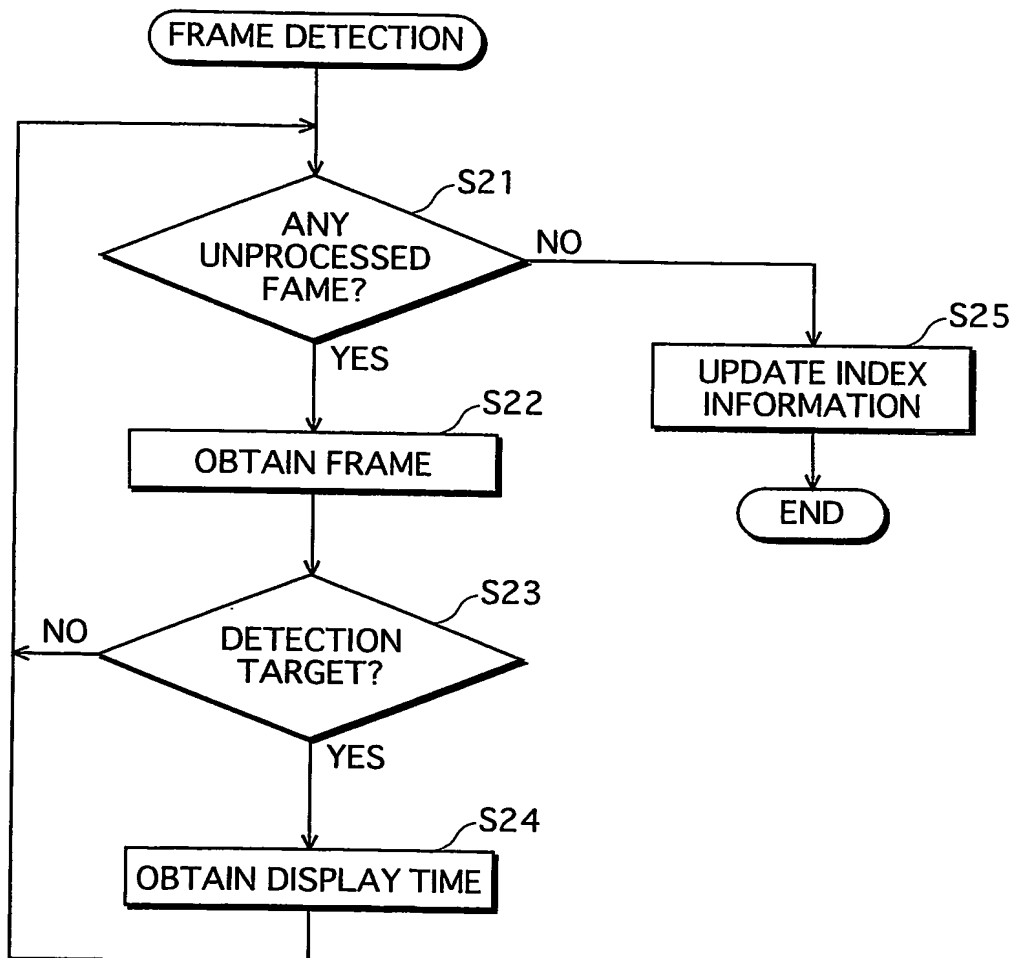




FIG.9

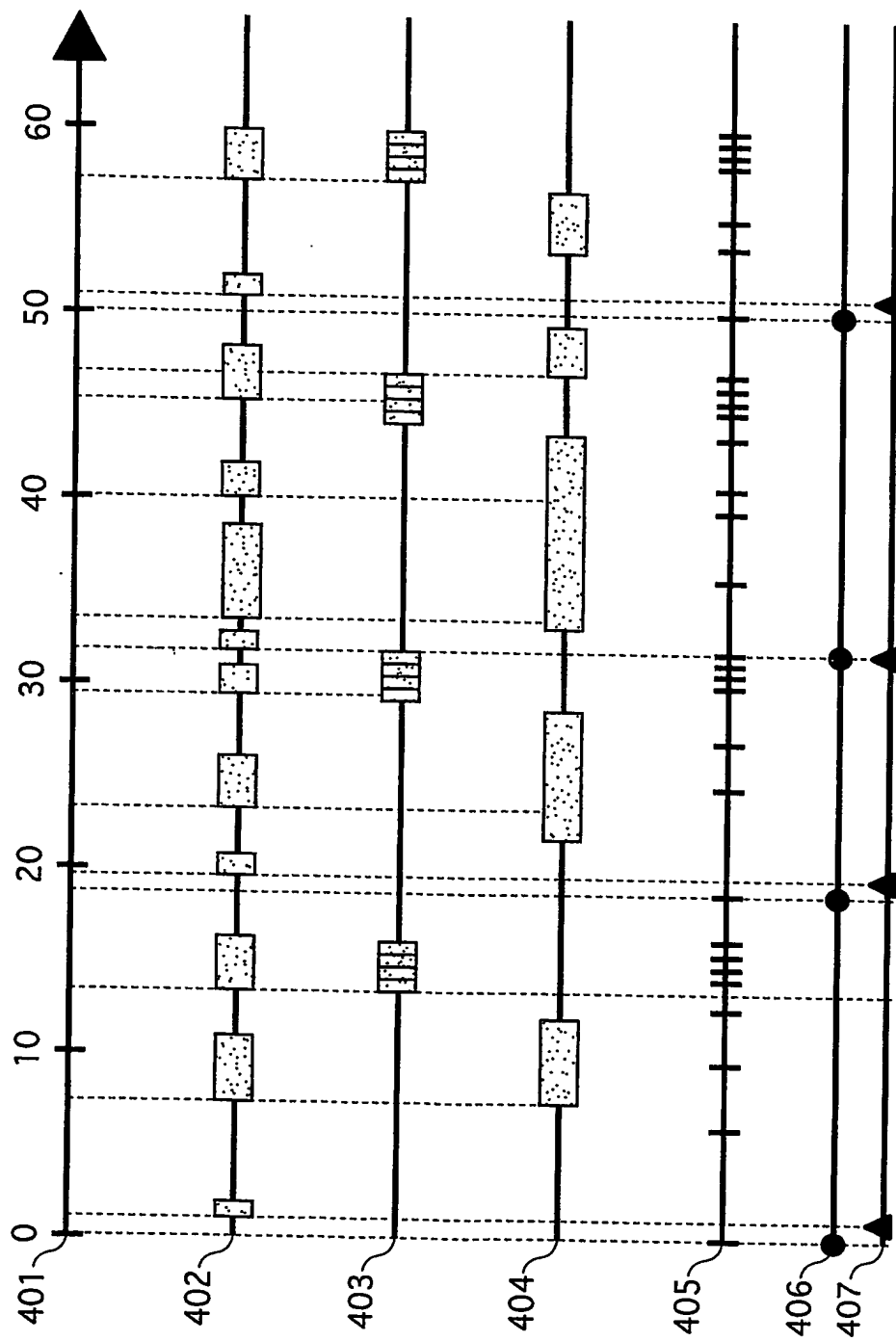


FIG.10

LARGE-TELOP START FRAME
00:45
08:00
13:00
19:30
24:00
29:00
30:30
33:00
40:00
45:00
45:30
51:15
58:00

FIG.11

SEGMENT START TIME	PRESENTATION TIME
—	00:45
—	08:00
—	13:00
—	19:30
—	24:00
—	29:00
—	30:30
—	33:00
—	40:00
—	45:00
—	45:30
—	51:15
—	58:00

FIG.12

CM START TIME	CM END TIME
13:00	13:30
13:30	14:00
14:00	14:15
14:15	14:30
29:00	29:15
29:15	29:45
29:45	30:15
30:15	30:30
44:30	44:45
44:45	45:00
45:00	45:15
45:15	45:30
58:00	58:30
58:30	59:00
59:00	59:30
59:30	60:00

FIG.13

SEGMENT START TIME	PRESENTATION TIME
—	00:45
—	08:00
—	—
—	19:30
—	24:00
—	—
—	30:30
—	33:00
—	40:00
—	—
—	45:30
—	51:15
—	—

FIG.14

SMALL-CAPTION START TIME	SMALL-CAPTION END TIME
08:00	12:30
22:45	28:00
32:00	43:15
45:30	49:00
53:15	56:45

FIG.15

SEGMENT START TIME	PRESENTATION TIME
—	00:45
—	—
—	—
—	19:30
—	—
—	—
—	30:30
—	—
—	—
—	—
—	—
—	51:15
—	—

FIG.16

TRANSITION FRAME
00:00
05:00
09:30
12:45
(CM SEGMENT)
19:00
25:30
27:00
(CM SEGMENT)
30:30
34:30
39:00
40:15
43:15
(CM SEGMENT)
50:00
54:00
55:15
(CM SEGMENT)



FIG.17

SEGMENT START TIME	PRESENTATION TIME
00:00	00:45
—	—
—	—
19:00	19:30
—	—
—	—
30:30	30:30
—	—
—	—
—	—
—	—
50:00	51:15
—	—

FIG.18A



FIG.18B

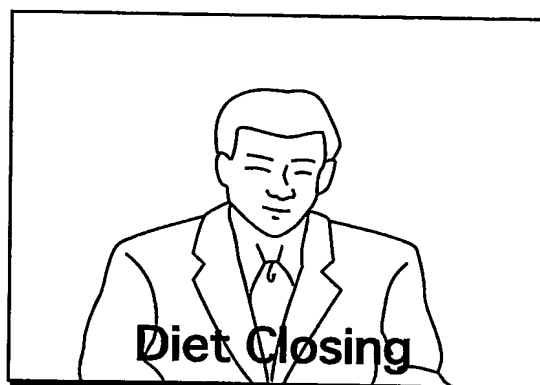
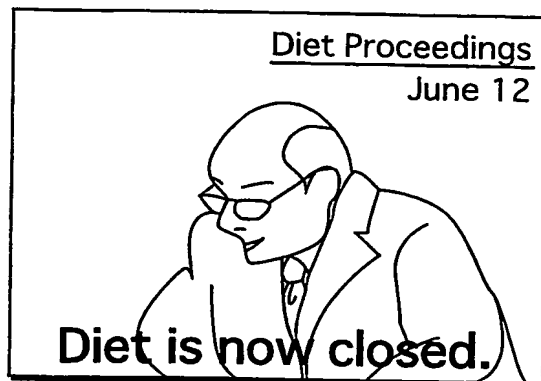


FIG.18C



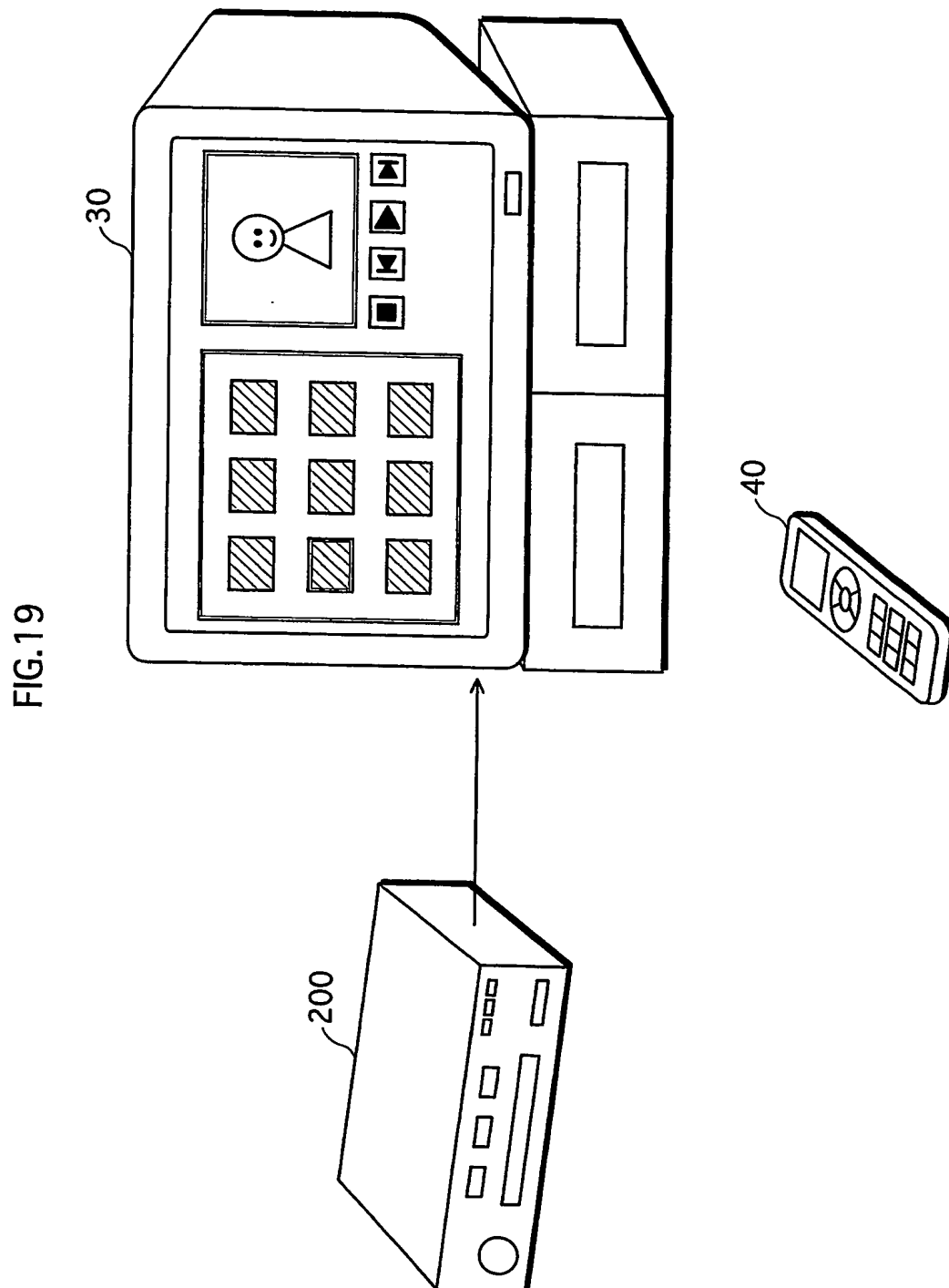


FIG.20

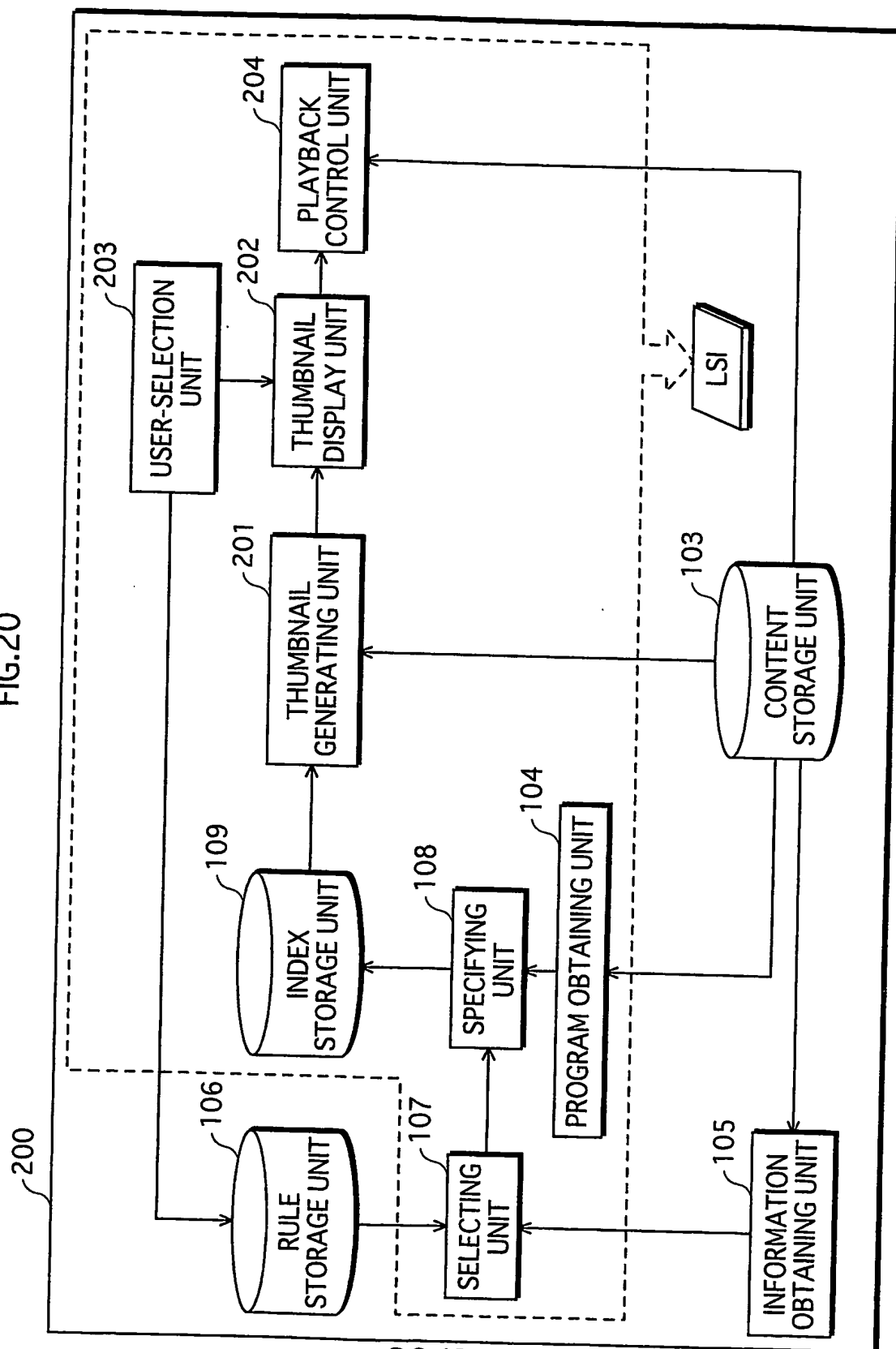


FIG.21

